

.HMC. WAGON TIPPLER COLD FOG DUST SUPPRESSION SYSTEM

.hmc. Cold Fog WAGON TIPPLER DS system is a plain filtered water high pressure Dust Suppression system. (Application) Wagon Tippler (coal) normally installed near the entrance to the unloading hopper.

Principle of Operation:

The pump is to be activated manually (optional auto system if required) spray will activate automatically once the wagon tipping action starts in the WT-MCC.



Pre-Wetting DS System – Waiting Wagons

The Fogging type spray nozzle fitted on the entrance of the receiving pit area will spray to moisten the top layer at the wagon.

Further in order to form a water curtain around the entire periphery specially designed atomizing nozzle shall be installed & activated at the same time with an extra high pressure small discharge pump (nozzle discharge 0.05 to 0.25 lpm @ 70- 100 bar pressure)

Dust generating points will be properly placed with spray headers and nozzles which produce fine mist sprays. The Air borne dust oncoming in contact with the fine mist type water particle, which becomes heavy and settle down with the original material flow.

Clarified Water for CFDS System

Ro quality treated water required for CFDS system to omit nozzle choking & scale formation in the pipeline.

COMPLETE SYSTEM CONSISTING OF ELECTRICAL ACTUATOR / SPRAY HEADER / CFDS NOZZLE / FILTER / SS-304 BALL VALVE / HIGH PRESSURE WATER PUMP / MCC PANEL / SS-304 PIPES & REQUIRED INSTRUMENTS.

The WT Spraying actuation shall be controlled from MCC by pushing the LPBS switch to energize the normally closed high pressure solenoid valve. The Spraying will be started / stopped through Solenoid Valve mounted on the Solenoid Boxes for each header. Specific solenoid valves will get energized based on the WT movement and will get de-energized through a pre-set timer (adjustable). The system shall be suitably interlocked by solenoid box with the wagon tippler mechanism so that the spraying time should be throughout the complete operation of tipping. Total suppression system shall act in such a way that the water curtain shall cover the entire periphery of the hopper.



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(AN ISO 9001:2015 CERTIFIED)

CONTROLLING ENVIRONMENT

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